Micro Inverter

Wireless Series-R3
Micro Inverter

Red Protection
Green Search&Lock

## WVC-700(Life)

USER MANUAL

Green Energy
Smart Inverter **Expert**

IoT Monitoring Platform

Smart mobile "core" life

- CO-2 induced environmental analysis
- Daily and total energy generation in kWh
- Actual DC input voltage, current and power
- Actual AC output voltage, current and power
- Inverter temperature
- Historical (daily, weekly, monthly) power curve
- Power losses due to weather induced effects
- Optional limitation of power output
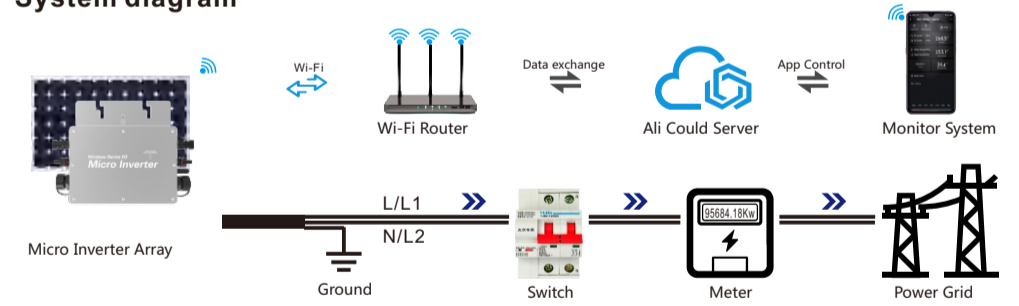- Online switch for the inverter start stop

Download on the **App Store**

ANDROID APP ON **Google Play**

Communication mode

Router

Ali Could Server

Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi

APP

- CO-2 induced environmental analysis
- Daily and total energy generation in kWh
- Actual DC input voltage, current and power
- Actual AC output voltage, current and power
- Inverter temperature
- Optional limitation of power output
- Online switch for the inverter start stop
- Historical (daily, weekly, monthly) power curve

---
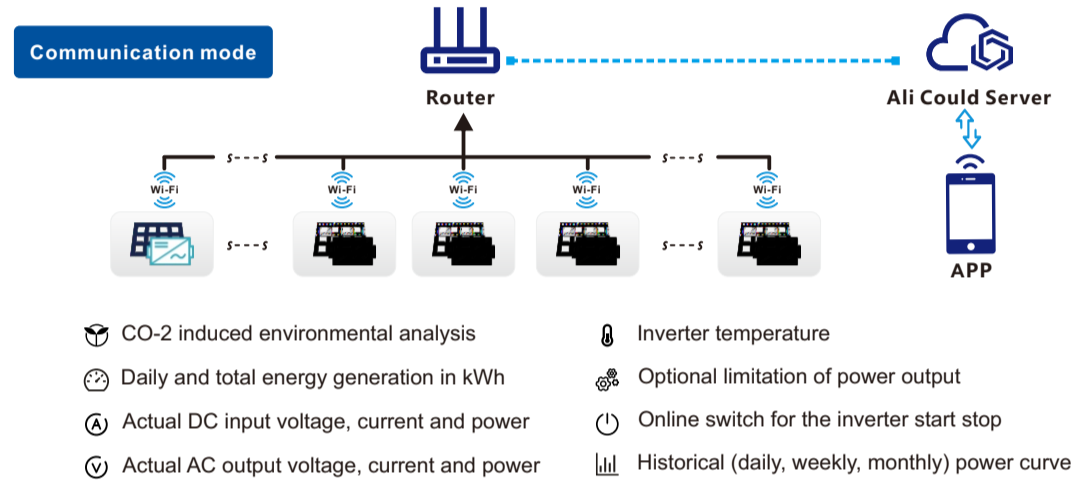
model	WVC-700	
Recommend use panels	2*430Watt	
Output voltage mode	120/230V Auto switch	
PV Open circuit voltage	33-60VDC	
Operating voltage range	22-60V	
Starting voltage range	22-60V	
short-circuit current	2*16A	
Maximum working current	2*14A	
Output parameters	**@120V**	**@230V**
Output peak power	700Watt	700Watt
Rated output power	680Watt	680Watt
Output current	5.9A	3.05A
AC voltage range	85-160VAC	180-265VAC
AC frequency range	48-51Hz/58-61Hz	48-51Hz/58-61Hz
Power factor	>95%	>95%
Number of branch connections.	6PCS (Single)	12PCS (Single)
Output efficiency	**@120V**	**@230V**
Static MPPT efficiency	99.5%	99.5%
Max output efficiency	95%	95%
Loss of power at night	<0.5W	<0.5W
Total current harmonics	<5%	<5%
Appearance and technical features		
Temperature range	-20℃ to +50℃	
Size (L×W×H)	283mm×200mm×41.6mm	
Net amount	1.56kg	
Waterproof grade	Ip65 NEMA3R	
Heat dissipation mode	Self-cooling	
Communication mode	Wi-Fi	
Power transmission mode	Reverse transmission,Load priority	
monitoring system	APP	
Electromagnetic Detection	EN61000-6-1:2007 EN6100-6-3:2007+A1:2011+AC:2012	
Power Grid standard	EN50549-1、EN 50549-2、NBR 16149:2013、UL1741	
Power grid detection	IEC/EN 62109-1、IEC/EN 62109-2、IEC 62116、IEEE 1547	
Certificate	CE , CEC, ETL , INMETRO	

Packing weight		
Specifications	Each (Packing)	Box (5PCS)
weight	2.4KG	11.5KG
Size	342×240×115mm	440×380×260mm

Detailed

Micro Inverter

Exterior

ANTENNA SCREW KIT MICRO INVERTER USER MANUAL AC PLUG

Accessories

System diagram

Wi-Fi

Data exchange App Control

Wi-Fi Router Ali Could Server Monitor System

Micro Inverter Array

L/L1
N/L2

Ground Switch Meter Power Grid

With N wire connection (Single phase 120/230V)

3-N-Neutral 1-L-Live wire

2-G-Ground

G-Yellow & Green
N-Blue
L-Red

No N wire connection(Single phase 120V)

3-L2-Live wire 1-L1-Live wire

2-G-Ground

G-Yellow & Green
N-Blue
L-Red
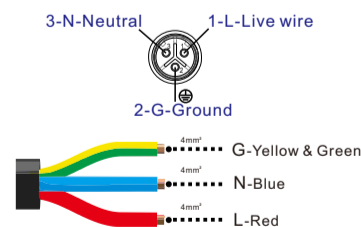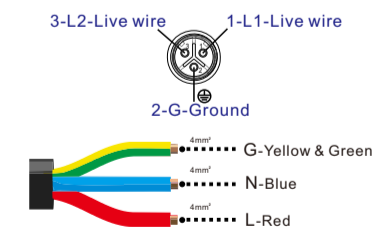
Note: You can purchase a professionally customized AC bus with a T-type connector. Use this AC bus as the AC bus for each branch. Connect it hand in hand to form a modular micro-inverter branch wiring system.

When the inverter is not started/shutdown and has been connected to the grid, the status of the LED indicators is as follows

1) When the inverter is not working ----------------- Red light is always on
2) When the inverter is in working state ------------ Blue light flashes
(MPPT is locked to a long light state)

When the inverter is not started/shutdown and is not connected to the grid, the LED indicator status is as follows

1) When the inverter is not working ----------------- Red light flashes
2) When the inverter is in working state ------------ Blue light flashes
(MPPT is locked in a long light state), and the red light flashes once every three seconds
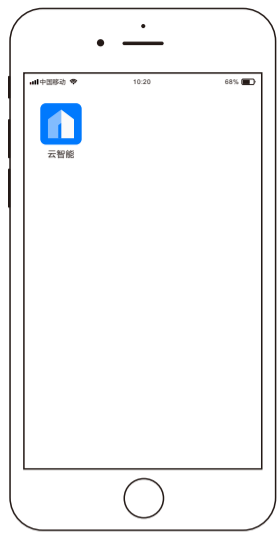
DOWNLOAD
Cloud Intelligence APP

Please use the QR code to scan and install the "Cloud Intelligence" client application,System version: Android 5.0, IOS 9 and above
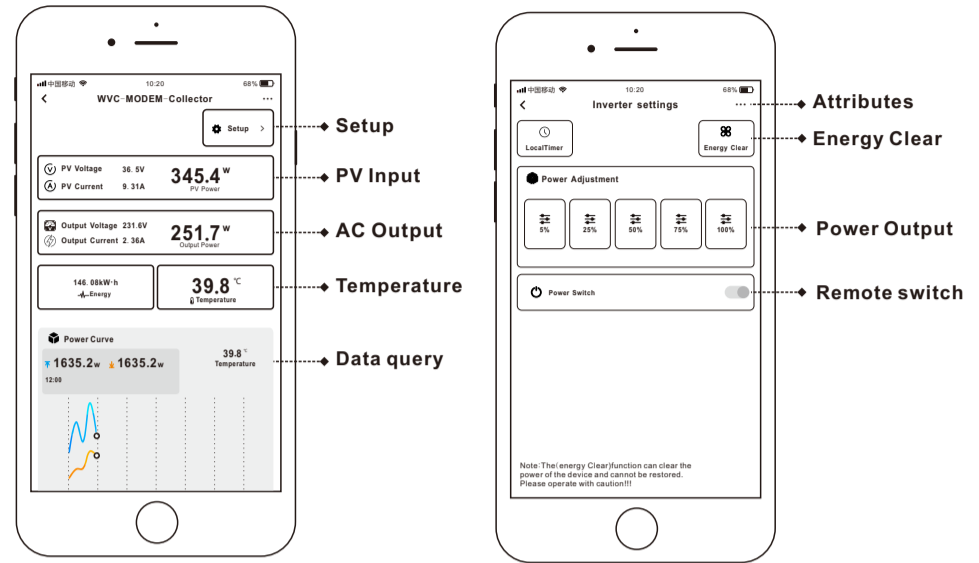
App Store | App Store | App Store

GET IT ON Google Play

Note

Please strictly observe the following installation conditions

a) Connect the communication antenna on the inverter;

b) Install the inverter in a place where the Wifi signal is well covered;

c) The connected Wi-Fi network needs to be in 2.4G communication mode;

d) If the WiFi signal cannot effectively cover the inverter, an additional WiFi signal booster can be installed;

e) Turn on the Bluetooth of the mobile phone;

HELP Features

Smart APP can realize real-time data transmission with the cooperation of Alibaba Cloud IoTThrough graphs and graphic displays in time, users can understand the operation of the power station. The user can monitor the operation and adjust the output power function of the system.

Setup
PV Input
AC Output
Temperature
Data query

Attributes
Energy Clear
Power Output
Remote switch

Cloud Intelligence APP

Download on the App Store | ANDROID APP ON Google Play

INTELLIGENT Iot MONITORING MODEM
Number of data collectors per Modem
Built-in WiFi IoT data terminal
Can be used on any smart device (Android/iOS)

- CO-2 induced environmental analysis
- Daily and total energy generation in kWh
- Actual DC input voltage, current and power
- Actual AC output voltage, current and power
- Inverter temperature
- Historical (daily, weekly, monthly) power curve
- Power losses due to weather induced effects
- Optional limitation of power output
- Online switch for the inverter start stop
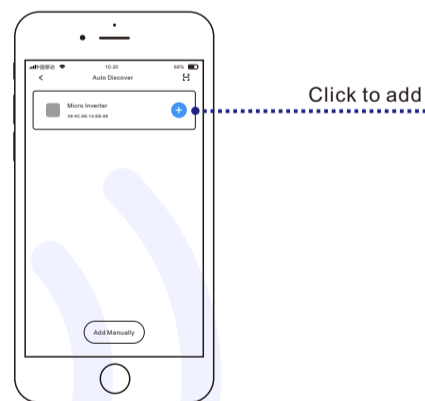
Bluetooth Mode

Setp 1

Turn on the Bluetooth of the mobile phone, click the "+" icon to add the device;
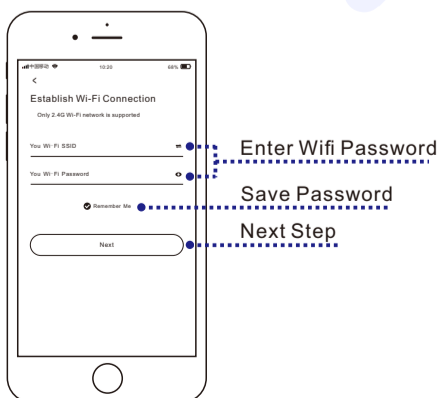
Click to add
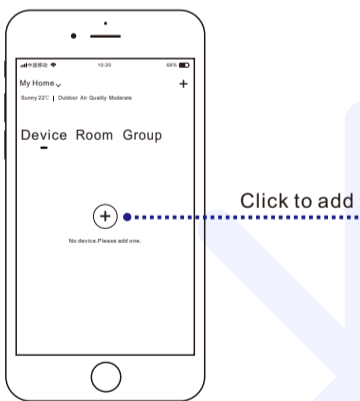
Setp 2

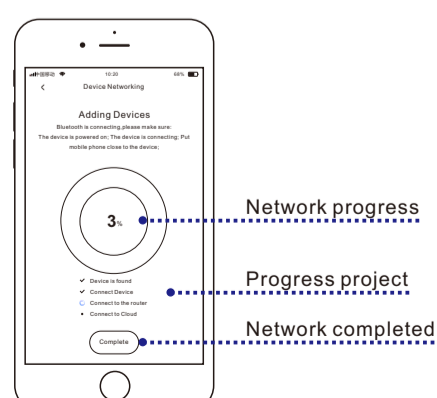When the inverter appears on the automatic discovery page, click the "+" sign

Click to add

Setp 3

Select WiFi signal, enter the Wi-Fi password; click Next

Enter Wifi Password
Save Password
Next Step

Setp 4

The system will enter the network configuration state

Network progress
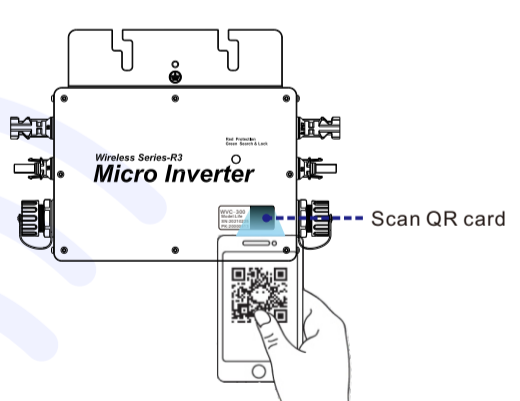Progress project
Network completed

Wi-Fi Mode

Setp 1

Bluetooth distribution network fails, you can click to scan the QR code to operate

Click to add

Setp 2

Scan the QR code on the inverter to activate network operation

Wireless Series-R3
Micro Inverter

Scan QR card

Setp 3

Select WiFi signal, enter the Wi-Fi password; click Next

Enter Wifi Password
Save Password
Next Step

Setp 4

The system will enter the network configuration state

Network progress
Progress project
Network completed